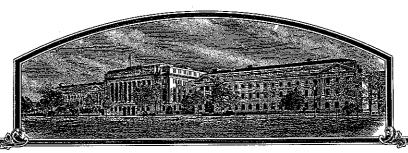
No.



THE UNITED STATES OF AMERICA

TO ALL TO WHOM THESE PRESENTS SHALL COME:

MestBred, TIÇ

MILECULES, THERE HAS BEEN PRESENTED TO THE

Secretary of Agriculture

AN APPLICATION REQUESTING A CERTIFICATE OF PROTECTION FOR AN ALLEGED DISTINCT VARIETY OF SEXUALLY REPRODUCED, OR TUBER PROPAGATED PLANT, THE NAME AND DESCRIPTION OF WHICH ARE GONTAINED IN THE APPLICATION AND EXHIBITS, A COPY OF WHICH IS HEREUNTO ANNEXED AND MADE A PART HEREOF, AND THE VARIOUS REQUIREMENTS OF LAW IN SUCH CASES MADE AND PROVIDED HAVE BEEN COMPLIED WITH, AND THE TITLE THERETO IS FROM THE RECORDS OF THE PLANT VARIETY PROTECTION OFFICE, IN THE APPLICANT(S) INDICATED IN THE SAID COPY, AND WHEREAS, UPON DUE PRAMINATION MADE, THE SAID APPLICANT(S) IS (ARE) ADJUDGED TO BE ENTITLED TO A CERTIFICATE OF PLANT VARIETY PROTECTION UNDER THE LAW.

NOW, THEREFORE, THIS CERTIFICATE OF PLANT VARIETY PROTECTION IS TO GRANT UNTO THE SAID APPLICANT(S) AND THE SUCCESSORS, HEIRS OR ASSIGNS OF THE SAID APPLICANT(S) FOR THE TERM OF TWENTY THE REQUIRED FEES AND PERIODIC HEART STROM THE DATE OF THIS GRANT, SUBJECT TO THE PAYMENT OF THE REQUIRED FEES AND PERIODIC HEART IS FOUNDED BY LAW, THE SUBJECT TO THE PAYMENT OF VIABLE BASIC SEED OF THE VARIETY, OR OFFERING IT FOR SALE, OR REPRODUCING IT, OR PROPAGATION, OR STOCKING IT FOR ANY OF THE URPOSES, OR USING IT IN PRODUCING A HYBRID OR DIFFERENT VARIETY THEREFROM, TO THE EXTENT BY THE PLANT VARIETY PROTECTION ACT. (84 STAT. 1542, AS AMENDED, 7 U.S.C. 2321 ET SEQ.)

WHEAT, COMMON

'Expresso'

In Cestimon Micros, I have hereunto set my hand and caused the seal of the Plant Bariety Frotestion Office to be affixed at the City of Washington, D.C. this seventh day of December, in the year two thousand and seven.

Remove

Commissioner
Plant Variety Protection Office
Agricultural Warketing Service

Elward T. Mehrefor L'Agriculture

U.S. DEPARTMENT OF AGRICULTURE

The following statements are made in accordance with the Privacy Act of 1974 (5 U.S.C. 552a) and

SCIENCE AND TECHNOLOGY - PLANT VAR	IETY PROTECTION OFFICE	tne Paperwoi	K Reduction Act (PRA) of 1995.			
Application For Plant Variety Protection Certificate (Instructions and information collection burden statement on reverse) (7 U		Application is (7 U.S.C. 242	Application is required in order to determine if a plant variety protection certificate is to be issued (7 U.S.C. 2421). Information is held confidential until certificate is issued (7 U.S.C. 2426).			
1. NAME OF OWNER	Son statement on revelse/	2. TEMPORA	RY DESIGNATION OR EXPERIMENTA	L NAME 3. VARIETY NAME		
WestBred, LLC		DA9	84-034SRR	Expresso		
4. ADDRESS (Street and No., or R.F.D. No., City, State,	and ZIP Code, and Country)	5. TELEPHO	NE (include area code)	FOR OFFICIAL USE ONLY		
81 Timberline Driv		406	-587-1218	PVPO NUMBER		
Bozeman, MT 59718	3	6. FAX (include	,	#200800002		
		406	-586-8247	FILING DATE		
 IF THE OWNER NAMED IS NOT A "PERSON", GIVE FORM OF ORGANIZATION (corporation, partnership, association, etc.) 	8. IF INCORPORATED, GIVE STATE OF INCORPORATION	9. DATE OF I	NCORPORATION .	OctoBER 10, 200		
WestBred, LLC	Arizona	Aug	ust 4, 2003	OCTOBL! COT		
10. NAME AND ADDRESS OF OWNER REPRESENTAT	IVE(S) TO SERVE IN THIS APPLICAT	TION. (First persor	n listed will receive all papers)	F FILING AND EXAMINATION FEES:		
Kim C. Shantz				s 4, 382.00		
WestBred, LLC				R DATE 10/10/07		
P.O. Box 6904		•		E 768.99		
Yuma, AZ 85366				v v		
•				D DATE 10/23/2007		
11. TELEPHONE (Include area code) 12.	FAX (include area code)		13. E-MAIL			
928-782-2749 9 14. CROP KIND (Common Name) 16.	28-782-2751 FAMILY NAME (Botanical)		kshantz@westh	ored.com any transgenes? (<i>optional</i>)		
Common Wheat	Poaceae		☐ YES 🕱 NO			
15. GENUS AND SPECIES NAME OF CROP 17. Triticum aestivum	S THE VARIETY A FIRST GENERAT ☐ YES X☐ NO	TION HYBRID?	IF SO, PLEASE GIVE THE ASSIGNE APPROVED PETITION TO DEREGUL COMMERICALIZATION.	D USDA-APHIS REFERENCE NUMBER FOR THE ATE THE GENETICALLY MODIFIED PLANT FOR		
19. CHECK APPROPRIATE BOX FOR EACH ATTACHME	NT SUBMITTED		20. DOES THE OWNER SPECIFY TH	HAT SEED OF THIS VARIETY BE SOLD ONLY AS A CLASS		
(Follow instructions on reverse) a. 🔀 Exhibit A. Origin and Breeding History of the '	√arietv		OF CERTIFIED SEED? (See Se	ction 83(a) of the Plant Variety Protection Act)		
b. Exhibit B. Statement of Distinctness	2.00		YES (If "yes", answer itel			
c. Exhibit C. Objective Description of Variety			NO (If "no", go to item 23	9		
d. Exhibit D. Additional Description of the Variety	(Optional)			HAT SEED OF THIS VARIETY BE LIMITED AS TO		
e. 🔀 Exhibit E. Statement of the Basis of the Owne			NUMBER OF CLASSES?			
f. X Exhibit F. Declaration Regarding Deposit	. a Ownording		☐ YES ☐ NO			
g. 😾 Voucher Sample (3,000 viable untreated seed	fs or, for tuber propagated varieties, ve	erification	22. DOES THE OWNER SPECIFY TH	FOUNDATION TREGISTERED TO CERTIFIED IAT SEED OF THIS VARIETY BE LIMITED AS TO		
that tissue culture will be deposited and mainta —	ained in an approved public repository) .	NUMBER OF GENERATIONS? ☐ YES ☐ NO			
h. X Filing and Examination Fee (\$4,382), made pa States" (Mail to the Plant Variety Protection Of	yable to "I reasurer of the United fice)			100 -4- 500 5-00-00-00		
		V.*	IF YES, SPECIFY THE NUMBER	_		
	•		FOUNDATION REGIS	TERED LI CERTIFIED sary, please use the space indicated on the reverse.)		
23. HAS THE VARIETY (INCLUDING ANY HARVESTED N FROM THIS VARIETY BEEN SOLD, DISPOSED OF, T OTHER COUNTRIES?	IATERIAL) OR A HYBRID PRODUCE RANSFERRED, OR USED IN THE U.	D . S, OR	24. IS THE VARIETY OR ANY COMP	ONENT OF THE VARIETY PROTECTED BY HT (PLANT BREEDER'S RIGHT OR PATENT)?		
YES □ NO			□ YES □ NO			
IF YES, YOU MUST PROVIDE THE DATE OF FIRST S FOR EACH COUNTRY AND THE CIRCUMSTANCES.	SALE, DISPOSITION, TRANSFER, O (Piease use space indicated on reve	R USE erse.)	IF YES, PLEASE GIVE COUNTRY REFERENCE NUMBER. (Please L	, DATE OF FILING OR ISSUANCE AND ASSIGNED use space indicated on reverse.)		
25. The owners declare that a viable sample of basic seed for a tuber propagated variety a tissue culture will be de	of the variety has been furnished with	application and w	ll be replenished upon request in accord	lance with such regulations as may be applicable, or		
The undersigned owner(s) is(are) the owner of this sext				uniform and stable as sequired in Section 47, and in		
entitled to protection under the provisions of Section 42 of th	e Plant Variety Protection Act.	plant variety, and t	relieve(s) that the vallety is new, distilict	, unisofffi, and stable as required in Section 42, and is		
Owner(s) is (are) informed that false representation her	ein can jeopardize protection and resu	ult in penalties.				
SIGNATURE OF OWNER		SIGNAT	URE OF OWNER			
Kin C. Skant		/	Well R I'llark			
NAME (Please print or type)		NAME (Please print or type)			
Kim C. Shantz	IDATE		Dale K. Clark			
Wheat Breeder	Oct, 4,200	. 1		Oct 8, 2007		
			— F `			

(See reverse for instructions and information collection burden statement

GENERAL INSTRUCTIONS: To be effectively filed with the Plant Variety Protection Office (PVPO), ALL of the following items must be received in the PVPO: (1) Completed application form signed by the owner; (2) completed exhibits A, B, C, E, F; (3) for a tuber reproduced variety, verification that a viable (in the sense that it will reproduce an entire plant) tissue culture will be deposited and maintained in an approved public repository; and (4) payment by credit card or check drawn on a U.S. bank for \$4,382 (\$518 filing fee and \$3,864 examination fee), payable to "Treasurer of the United States" (See Section 97.6 of the Regulations and Rules of Practice). NEW: With the application for a seed reproduced variety or by direct deposit soon after filing, the applicant must provide at least 3,000 viable untreated seeds of the variety per se, and for a hybrid variety at least 3,000 untreated seeds of each line necessary to reproduce the variety. Partial applications will be held in the PVPO for not more than 90 days; then returned to the applicant as un-filed. Mail application and other requirements to Plant Variety Protection Office, AMS, USDA, Room 401, NAL Building, 10301 Baltimore Avenue, Beltsville, MD 20705-2351. Retain one copy for your files. All items on the face of the application are self explanatory unless noted below. Corrections on the application form and exhibits must be initialed and dated. DO NOT use masking materials to make corrections. If a certificate is allowed, you will be requested to send a payment by credit card or check payable to "Treasurer of the United States" in the amount of \$768 for issuance of the certificate. Certificates will be issued to owner, not licensee or agent.

NOTES: It is the responsibility of the applicant/owner to keep the PVPO informed of any changes of address or change of ownership or assignment or owner's representative during the life of the application/certificate. The fees for filing a change of address; owner's representative; ownership or assignment; or any modification of owner's name is specified in Section 97.175 of the regulations. (See Section 101 of the Act, and Sections 97.130, 97.131, 97.175(h) of the Regulations and Rules of Practice.)

Plant Variety Protection Office

Telephone: (301) 504-5518 FAX: (301) 504-5291

General E-mail: PVPOmail@usda.gov

Homepage: http://www.ams.usda.gov/science/pvpo/PVPindex.htm

SPECIFIC INSTRUCTIONS:

To avoid conflict with other variety names in use, the applicant must check the appropriate recognized authority and **provide evidence** that the permanent name of the application variety (even if it is a parental, inbred line) has been cleared by the appropriate recognized authority before the Certificate of Protection is issued. For example, for agricultural and vegetable crops, contact: U.S. Department of Agriculture, Agricultural Marketing Service, Livestock and Seed Programs, **Seed Regulatory and Testing Branch**, 801 Summit Crossing Place, Suite C, Gastonia, North Carolina 28054-2193 Telephone: (704) 810-8870. http://www.ams.usda.gov/lsg/seed.htm.

ITEM

19a. Give:

- (1) the genealogy, including public and commercial varieties, lines, or clones used, and the breeding method;
- (2) the details of subsequent stages of selection and multiplication;
- (3) evidence of uniformity and stability; and
- (4) the type and frequency of variants during reproduction and multiplication and state how these variants may be identified
- 19b. Give a summary of the variety's distinctness. Clearly state how this application variety may be distinguished from all other varieties in the same crop. If the new variety is most similar to one variety or a group of related varieties:
 - (1) identify these varieties and state all differences objectively;
 - (2) attach replicated statistical data for characters expressed numerically and demonstrate that these are clear differences; and
 - (3) submit, if helpful, seed and plant specimens or photographs (prints) of seed and plant comparisons which clearly indicate distinctness.

19c. Exhibit C forms are available from the PVPO Office for most crops; specify crop kind. Fill in Exhibit C (Objective Description of Variety) form as completely as possible to describe your variety.

- 19d. Optional additional characteristics and/or photographs. Describe any additional characteristics that cannot be accurately conveyed in Exhibit C. Use comparative varieties as is necessary to reveal more accurately the characteristics that are difficult to describe, such as plant habit, plant color, disease resistance, etc.
- 19e. Section 52(5) of the Act requires applicants to furnish a statement of the basis of the applicant's ownership. An Exhibit E form is available from the PVPO.
- 20. If "Yes" is specified (seed of this variety be sold by variety name only, as a class of certified seed), the applicant MAY NOT reverse this affirmative decision after the variety has been sold and so labeled, the decision published, or the certificate issued. However, if "No" has been specified, the applicant may change the choice. (See Regulations and Rules of Practice, Section 97.103).
- 23. See Sections 41, 42, and 43 of the Act and Section 97.5 of the regulations for eligibility requirements.
- 24. See Section 55 of the Act for instructions on claiming the benefit of an earlier filing date.
- 22. CONTINUED FROM FRONT (Please provide a statement as to the limitation and sequence of generations that may be certified.)
- 23. CONTINUED FROM FRONT (Please provide the date of first sale, disposition, transfer, or use for each country and the circumstances, if the variety (including any harvested material) or a hybrid produced from this variety has been sold, disposed of, transferred, or used in the U.S. or other countries.)

November 8, 2006 USA Certified Seed

24. CONTINUED FROM FRONT (Please give the country, date of filing or issuance, and assigned reference number, if the variety or any component of the variety is protected by intellectual property right (Plant Breeder's Right or Patent).)

According to the Paperwork Reduction Act of 1995, an agency may not conduct or sponsor, and a person is not required to respond to a collection of information unless it displays a valid OMB control number. The valid OMB control number for this information collection is 0581-055. The time required to complete this information collection is estimated to average 1.4 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information.

The U.S. Department of Agriculture (USDA) prohibits discrimination in all its programs and activities on the basis of race, color, national origin, age, disability, and where applicable, sex, marital status, familial status, parental status, religion, sexual orientation, genetic information, political beliefs, reprisal, or because all or part of an individual's income is derived from any public assistance program (Not at prohibited bases apply to all programs.) Persons with disabilities who require alternative means for communication of program information (Braille, large print, audiotape, etc.) should contact USDA's TARGET Center at (202) 720-2600 (voice and TDD).

19.a. Exhibit A. Origin and Breeding History of the Variety

'Expresso' originated from a backcross breeding scheme with the objective of moving stripe rust resistant genes Yr15 and Yr17 into 'Express' background. The donor of Yr15 was the isogenic line of YR15 in 'Avocet' provided by Bob McIntosh. The donor of Lr37/Sr38/Yr17 was the variety Madsen. The genes were introduced separately into Express using 6 backcrosses with Express as the recurrent parent and using molecular markers for selection. The two resulting lines were crossed and the double homozygote line that became 'Expresso' was selected using molecular markers. The pedigree is Express 6*/Yr15 Avocet/Express 6*/Madsen. The crossing and marker assisted selection were performed for WestBred, LLC in the greenhouse by Dr. Jorge Dubcovsky of the University of California-Davis. In the F3 generation of the final cross, four plants were found to be homozygous for Yr15 and Lr37/Sr38/Yr17. The seed of these four plants were planted in a growth chamber near Bozeman, MT in September of 2004. Seed was harvested from 132 plants in December and planted as plant plots near Yuma, AZ in December of 2004. One hundred twenty plant plots, which were identical and uniform, were harvested, bulked together and designated DA984-034SRR. This seed was used to plant 6 acres near Bozeman, MT in the summer of 2005. The resulting seed was harvested as Breeder Seed and this seed was used to produce Foundation Seed near Woodland, CA in 2006. Certified Seed was first offered for sale November 8, 2006. The breeding method used was backcross Marker Assisted Selection. (MAS)

'Expresso' was tested in replicated yield trials at 9 locations in Central California in 2006 and 2007. (Davis, CA; Dixon, CA; UCD, CA; Colusa, CA; Delta, CA; Corcoran, CA; Five Points, CA; Kern County, CA; and Kings County, CA)

The selection criteria used during the breeding of 'Expresso' was 2 molecular markers associated with Yr15 and the molecular markers associated with Lr37/Sr38/Yr17. The plot selection criteria used in 2005 was a phenotype identical to 'Express'. In 2006 and 2007 the stripe rust resistance of 'Expresso' relative to 'Express' was confirmed by field observation.

'Expresso' has been observed for five generations of reproduction and seed increase and is stable and uniform. 'Expresso' has a tall variant that is 12-30 cms taller that occurs at a frequency of up to .5%. A white seed variant may occur at a frequency of up to .5%. An awnless variant may occur at a frequency of up to .5% The variants are otherwise identical to the variety in all other characteristics as described in Exhibit C.



19.b. Exhibit B. Statement of Distinctness

'Expresso' most resembles the hard red spring variety 'Express' but differs in that 'Expresso' has the molecular markers associated with the stripe rust resistant genes Yr15 and Lr37/Sr38/Yr17 and is resistance to current stripe rust races in California, while 'Express' does not have the markers and is susceptible to the current stripe rust races in California.

For Yr15 the proximal loci micro-satellite marker used was Xgwm273 and the distal loci micro-satellite marker used was Xbarc8. The 2NS segment contains the genes Lr37/Sr38/Yr17. The two PCR primer pairs used that are specific for 2NS were VENTRIUP and LN2. This is a dominant marker so a CAPS marker was used (primer URIC) to identify the absence of the 2A-alle in the homozygous 2NS plants. The reference is http://maswheat.ucdavis.edu.



Table 1. Mean Agronomic Data of 'Expresso' Compared to Check Varieties in 2006 and 2007. UC Davis Regional Common Wheat and Triticale at Sites With High Stripe Rust Infestation. (UC Davis 2006, 2007; Sacramento/San Joaquin Delta 2006, 2007; Madera 2006; and Colusa 2007)

Variety	Yields in lbs/A	Plant Height cm	Lodging Rating	Heading After 3/1	Test Weight lbs/bu	Protein %	Stripe Rust*
Expresso	5914	104	2.1	44	62.8	14.5	1.1
Express	4980	104	2.2	44	58.5	14.0	5.8
Summit	5541	93	1.0	44	59.1	13.9	6.3

^{*} 1 = none, 2 = trace, 3 = moderately resistant, 4 = moderately susceptible, 5 = susceptible, 9 = dead.

Table 2. Mean Agronomic Data of 'Expresso' Compared to Check Varieties in WestBred, LLC trials in 2006 and 2007 in the Absence of High Levels of Stripe Rust. (Yuma, AZ. 2006, 2007; Corcoran, CA. 2006, 2007; Five Points, CA. 2006, 2007; Dixon, CA. 2006, 2007; and Davis, CA. 2007)

Variety	Yield in lbs/A	Plant Height cm	Days to Head After 3/1	Test Weight lbs/bu	Protein %
Expresso	5455	95	40	63.1	14.9
Express	5607	94	40	63.0	14.3
Summit	5882	87	41	62.2	13.2

Table 3.

Qual	ity of Expresso	compared to Expre	ss and Blanca	Grande
	California Extension Trials		California Wheat Collaborative Trial	
i	Expresso	Express	Expresso	Blanca Grande
% Protein	16.0	16.2	16.1	15.1
Flour Yield	65.0	64.4	63.5	63.1
Falling number	473	468	453	371
Wet Gluten	35.8	35.6	32.9	30.0
Farinograph Absorption	61.8	61.6	62.2	61.5
Arrival	3.0	3.0	6.00	17.5
Mix tolerance	22.5	26.0	16.0	12.5
MTI	20	20	10	15
Bread Volume cc	955	1000	1005	945
Texture rating	S	S	S	S
Bake Score	5 .	5	5	5 .

^{*}Quality Data provided by the California Wheat Commission

Table 4 Quality of Expresso Compared to Express and Blanca Grande Cargill Bake Lab Analysis.

Trait	Expresso	Express	Blanca Grande
% Protein	14.9	13.6	12.8
Loaf Volume cc	900	933	933
Crumb Grain	5	5	10
Rating Crumb Texture	10	10	10
Rating Crumb Color	5	5	5
Rating Dough Handling	5	5	10
Rating Mix Tolerance	5	10	5
Rating Bake Score	53	58	63

REPRODUCE LOCALLY. Include form number and date on all reproductions.

According to the Paperwork Reduction Act of 1995, an agency may not conduct or sponsor, and a person is not required to respond to a collection of information unless it displays a valid OMB control number. The vald OMB control number for this information collection is 0581-0055. The time required to complete this information collection is estimated to average 2.5 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information.

The U.S. Department of Agriculture (USDA) prohibits discrimination in all its programs and activities on the basis of race, color, national origin, age, disability, and where applicable, sex, marital status, familial status, parental status, religion, sexual orientation, genetic information, political beliefs, reprisal, or because all or part of an individual's income is derived from any public assistance program (Not all prohibited bases apply to all programs.) Persons with disabilities who require alternative means for communication of program information (Braille, large print, audiotape, etc.) should contact USDA's TARGET Center at (202) 720-2600 (voice and TDD).

To file a complaint of discrimination, write to USDA, Director, Office of Civil Rights, 1400 Independence Avenue, S.W., Washington, D.C. 20250-9410, or call (800) 795-3272 (voice) or (202) 720-6382 (TDD). USDA is an equal opportunity provider and employer.

U.S. DEPARTMENT OF AGRICULTURE AGRICULTURAL MARKETING SERVICE SCIENCE AND TECHNOLOGY **PLANT VARIETY PROTECTION OFFICE** BELTSVILLE, MD 20705

Exhibit C

OBJECTIVE DESCRIPTION OF VARIETY

	wneat (<i>i riticum</i> spp).)			
NAME OF APPLICANT (S)	TEMPORARY OR EXPERIMENTAL DESIGNATION	VARIETY	NAME		
WestBred, LLC	DA984-034SRR	Exp	resso		
ADDRESS (Street and No. or RD No., City, State, Zip Code and Co	untry)	FOR OFFIC	CIAL USE ONLY		
81 Timberline Drive		PVPO NUM	ABER		
Bozeman, MT 59718			#200	8000	0 2
PLEASE READ ALL INSTRUCTIONS CAREFULLY	:	'			
Place the appropriate number that describes the varie when number is either 99 or less or 9 or less respecti should be determined from varieties entered in the sa designate system used: Munsell Colorgour application .	vely. Data for quantitative plant characters me trial. Royal Horticultural Society or any	should be based on a r	ninimum of 100 plan ard may be used to	its. Comparative	e data colors;
1. KIND: 1 = Common 2 = Durum 3 = Club 4 = Other (Specify)		ZATION: 1 = Spring 2 = Winter 3 = Other (Specify)			
3. COLEOPTILE ANTHOCYANIN: 1 1 = Absent 2 = Present	4. JUVENILE 3	E PLANT GROWTH:	2 = Semi-Erect	3 ≃ Erect	
5. PLANT COLOR: (boot stage)	6. FLAG LEA	AF: (boot stage)			
1 = Yellow-Green	1	1 = Erect	2 = Recurved		
2 = Green 3 = Blue-Green	2	1 = Not Twisted	2 = Twisted		
	2	1 = Wax Absent	2 = Wax Present		
7. EAR EMERGENCE: 1 1 6 Number of Days (Average) Number of Days Earlier Than *_ Same As *_ Number of Days Later Than *_ *Ref	Express elative to a PVPO-Approved Commercial Va	nriety Grown in the San	 ne Trial		
8. ANTHER COLOR: 1 1 = Yellow 2 = Purple					

			ii	
13. SE	ED:			
A.	SHAPE		E. COLOR	
3	1 = Ovate 2 = Oval 3 = Elliptical		3 1 = White 2 = Amber 3 = Red 4 = Other (Specify)	·
В.	CHEEK		F. TEXTURE	
1	1 = Rounded 2 = Angular		1 = Hard 2 = Soft 3 = Other (Specify)	
C.	BRUSH		G. PHENOL REACTION (See Instructions)	
2	1 = Short 2 = Medium 3 = Long 1 = Not Collared 2 = Collared		1 = Ivory 4 = Dark Brown 2 = Fawn 5 = Black 3 = Light Brown	
D.	CREASE		H. SEED WEIGHT	
1	1 = Width 60% or less of Kernel 2 = Width 80% or less of Kernel 3 = Width Nearly as Wide as Kernel		4 5 g/1000 Seed (whole number only)	
2	1 = Depth 20% or less of Kernel 2 = Depth 35% or less of Kernel 3 = Depth 50% or less of Kernel		I. GERM SIZE 1 = Small 2 = Midsize 3 = Large	
44 010	FACE DISCOURS AND CONTRACT OF THE PROPERTY OF		1700	***
14. DIS				
	(0 = Not Tested 1 = Susceptible		Resistant 3 = Intermediate 4 = Tolerant)	
5	Stem Rust (Puccinia graminis f. sp. tritici)	0	Leaf Rust (Puccinia recondita f. sp. tritici)	
	Stripe Rust (Puccinia striiformis)	0	Loose Smut (Ustilago tritici)	
0	Tan Spot (Pyrenophora tritici-repentis)		Flag Smut (Urocystis agropyri)	
0	Halo Spot (Selenophoma donacis)		Common Bunt (Tilletia tritici or T. laevis)	
0	Septoria nodorum (Glume Blotch)	0	Dwarf Bunt (Tilletia controversa)	
$\overline{}$	Septoria avenae (Speckled Leaf Disease)		Karnal Bunt (<i>Tilletia indica</i>)	
4	Septoria tritici (Speckled Leaf Blotch)	0	Powdery Mildew (Erysiphe graminis f. sp. tritici)	
0	Scab (Fusarium spp.)	0	"Snow Molds"	
0	"Black Point" (Kernel Smudge)	0	Common Root Rot (Fusarium, Cochliobolus and Bipolaris spp.)	
1	Barley Yellow Dwarf Virus (BYDV)	0	Rhizoctonia Root Rot (Rhizoctonia solani)	
0	Soilborne Mosaic Virus (SBMV)	0	Black Chaff (Xanthomonas campestris pv. translucens).	
0	Wheat Yellow (Spindle Streak) Mosaic Virus	0	Bacterial Leaf Blight (Pseudomonas syringae pv. syringae)	
0	Wheat Streak Mosaic Virus (WSMV)		Other (Specify)	
	Other (Specify)		Other (Specify)	
	Other (Specify)		Other (Specify)	
	Other (Specify)		Other (Specify)	
5. INSE	,,		3 = Intermediate 4 = Tolerant)	
	Hessian Fly (Mayetiola destructor)		Other (Specify)	
	Stem Sawfly (Cephus spp.)	H	Other (Specify)	
	Cereal Leaf Beetle (Oulema melanopa)	H		
لــــن	Octobrida Deere (Obietta melatiupa)	ш	Other (Specify)	10

#200800002

Exhibit C (Wheat

15. INSECT: (continued) (0 = Not Tested 1 = Susceptible 2 = Resistant 3 = Intermediate 4 = Tolerant)	
PLEASE SPECIFY BIOTYPE (Where Needed)	
D Russian Aphid (Diuraphis noxia) D Greenbug (Schizaphis graminum) D Aphids D Other (Specify) Other (Specify)	

16. ADDITIONAL INFORMATION ON ANY ITEM ABOVE, OR GENERAL COMMENTS:

REPRODUCE LOCALLY, include form number and edition date on all	reproductions.	URIVI APPROVED - UIVIB NO. 0361-0035			
U.S. DEPARTMENT OF AGRICULTURE AGRICULTURAL MARKETING SERVICE	Application is required in order to determine if a plant variety protection certificate is to be issued (7 U.S.C. 2421). The information is held				
EXHIBIT E	confidential until the certificate is issued (7 U.S.C. 2426).				
STATEMENT OF THE BASIS OF OWNERSHIP					
1. NAME OF APPLICANT(S)	2. TEMPORARY DESIGNATION OR EXPERIMENTAL NUMBER	3. VARIETY NAME			
WestBred, LLC	DA984-034RR	Expresso			
4. ADDRESS (Street and No., or R.F.D. No., City, State, and ZIP, and Country)	5. TELEPHONE (Include area code)	6. FAX (Include area code)			
81 Timberline Drive Bozeman, MT 59718	(406) 587-1218	(406) 587-8247			
Dezeman, M. 37/10	7. PVPO NUMBER				
	# 2	00800002			
8. Does the applicant own all rights to the variety? Mark an "X" in the	appropriate block. I f no, please expla	h. YES NO			
9. Is the applicant (individual or company) a U.S. national or a U.S. ba	ased company? If no, give name of co	ountry. YES NO			
10. Is the applicant the original owner? YES	NO If no, please answer <u>one</u>	of the following:			
a. If the original rights to variety were owned by individual(s), is (
YES	NO If no, give name of count	ry			
b. If the original rights to variety were owned by a company(ies), is (are) the original owner(s) a U.S. based company? YES NO If no, give name of country					
11. Additional explanation on ownership (Trace ownership from origin	al breeder to current owner. Use the re	everse for extra space if needed):			
PLEASE NOTE:					
Plant variety protection can only be afforded to the owners (not licens	ees) who meet the following criteria:				
If the rights to the variety are owned by the original breeder, that person must be a U.S. national, national of a UPOV member country, or national of a country which affords similar protection to nationals of the U.S. for the same genus and species.					
 If the rights to the variety are owned by the company which employed the original breeder(s), the company must be U.S. based, owned by nationals of a UPOV member country, or owned by nationals of a country which affords similar protection to nationals of the U.S. for the same genus and species. 					
3. If the applicant is an owner who is not the original owner, both the o	original owner and the applicant must m	eet one of the above criteria.			
The original breeder/owner may be the individual or company who directed the final breeding. See Section 41(a)(2) of the Plant Variety Protection Act for definitions.					

According to the Paperwork Reduction Act of 1995, an agency may not conduct or sponsor, and a person is not required to respond to a collection of information unless it displays a valid OMB control number. The valid OMB control number for this information collection is 0581-0055. The time required to complete this information collection is estimated to average 0.1 hour per response, including the time for reviewing the instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information.

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To file a complaint of discrimination, write USDA, Director, Office of Civil Rights, Room 326-W, Whitten Building, 14th and Independence Avenue, SW, Washington, D.C. 20250-9410 or call (202) 720-5964 (voice and TDD). USDA is an equal opportunity provide and employer.

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U.S. DEPARTMENT OF AGRICULTURE AGRICULTURAL MARKETING SERVICE SCIENCE AND TECHNOLOGY **PLANT VARIETY PROTECTION OFFICE** BELTSVILLE, MD 20705

EXHIBIT F DECLARATION REGARDING DEPOSIT

	DECEARATION NEGARDING DEFOSIT		
NAME OF OWNER (\$)	ADDRESS (Street and No. or RD No., City, State, and Zip Code and Country)	TEMPORARY OR EXPERIMENTAL DESIGNATION	
WestBred, LLC P.O. Box 6904 Yuma, AZ 85366	WestBred, LLC	DA984-034SRR	
	VARIETY NAME Expresso		
NAME OF OWNER REPRESENTATIVE (\$)	ADDRESS (Street and No. or RD No., City, State, and Zip Code and Country)	FOR OFFICIAL USE ONLY	
Kim C. Shantz	WestBred, LLC P.O. Box 6904 Yuma, AZ 85366	#20080002	

I do hereby declare that during the life of the certificate a viable sample of propagating material of the subject variety will be deposited, and replenished as needed periodically, in a public repository in the United States in accordance with the regulations established by the Plant Variety Protection Office.

tober 4,2007